



## LAND, FACILITIES & PROGRAMS COMMITTEE

July 11, 2011- 6:00 PM

### BRIEFING EMERGENCY REPAIR TO DAM IN SHOAL CREEK, AT 49<sup>th</sup> STREET

#### CHRONOLOGY

##### AWU:

- 03/11 Was tracing older WW pipes and discovered a break in overflow pipe; creek downstream of dam had water that would have to be pumped to retrieve pipe section
- 05/09/11 Assessed damage to overflow pipe and sealed both ends as part of abandonment; began pumping water to locate broken section of pipe
- 05/10/11 Completed pumping of water and assessed erosion under dam and both banks just downstream of dam
- 05/12/11 Began emergency repairs to eroded areas; now nearing completion of those repairs
- 05/17/11 Contacted Watershed Protection and PARD upon discovering that area was platted as Recreation and Drainage (shared jurisdiction)
- 07/01/11 Completed concrete work; restoration and revegetation remain

## **REPAIR METHOD**

- Pumped water from work areas prior to work
- Designed inner wall of reinforced concrete in “U” shape to allow for spillway basin
- As vertical sections of wall were completed, flowable fill concrete was pumped in behind
- Flowable fill concrete was pumped into voids in substrates up to shale/rock shelf; estimated 1,000 c.y. of concrete was used

## **BACKGROUND/HISTORY**

- Dam appears to have two sections (vertically), possibly with two drain openings
- May have been used for foot traffic at one time – to cross Shoal Creek and maybe for old location of ‘Blue Hole’ swimming. There is a foundation for a landing and steps at the east end
- PARD researching the history; experts from Texas Parks & Wildlife Department have visited the site. One opinion is that it was originally used for agricultural purposes.
- Believed to have been built as far back as the early 1900's or earlier
- At least one homeowner/neighbor has informed AWU that he and others would like the dam to stay

## **NEXT STEPS**

- PARD staff have brought this situation to the attention of the director's office
- AWU to complete short-term emergency repairs
- Assessment of structural integrity of dam structure itself to determine if it can remain or must be removed for safety purposes – check for historical significance

- Observation of effects of new configuration on creek and banks downstream after rain events and moderate creek flow
- Research into possible modifications, if necessary









05/20/2011







